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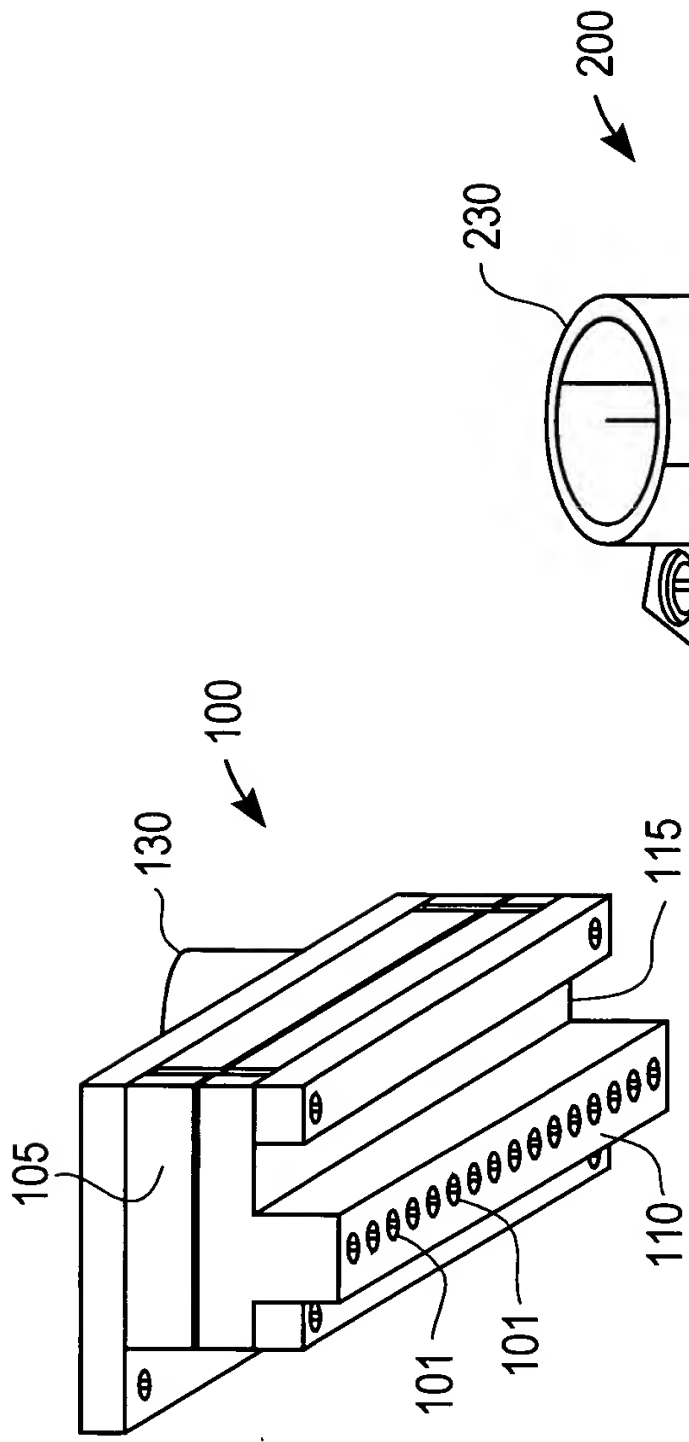


FIG. 1

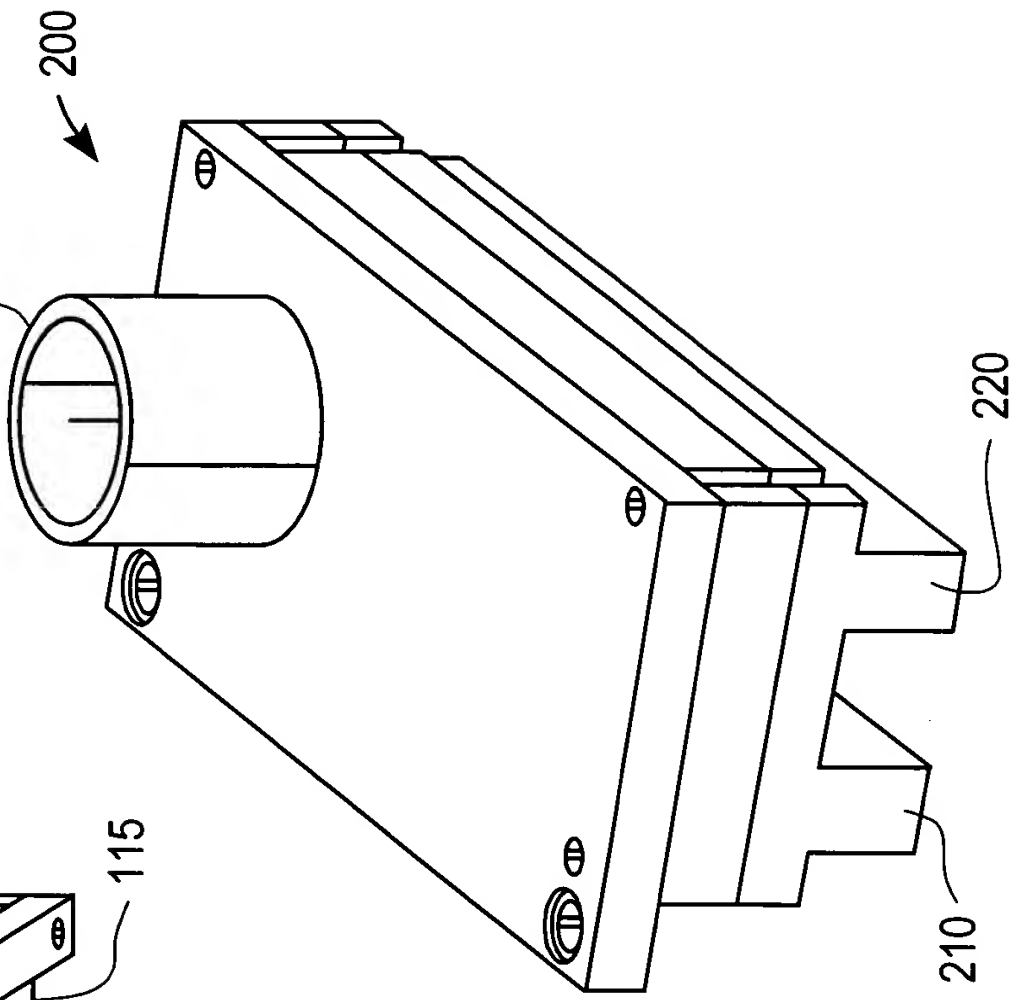


FIG. 2

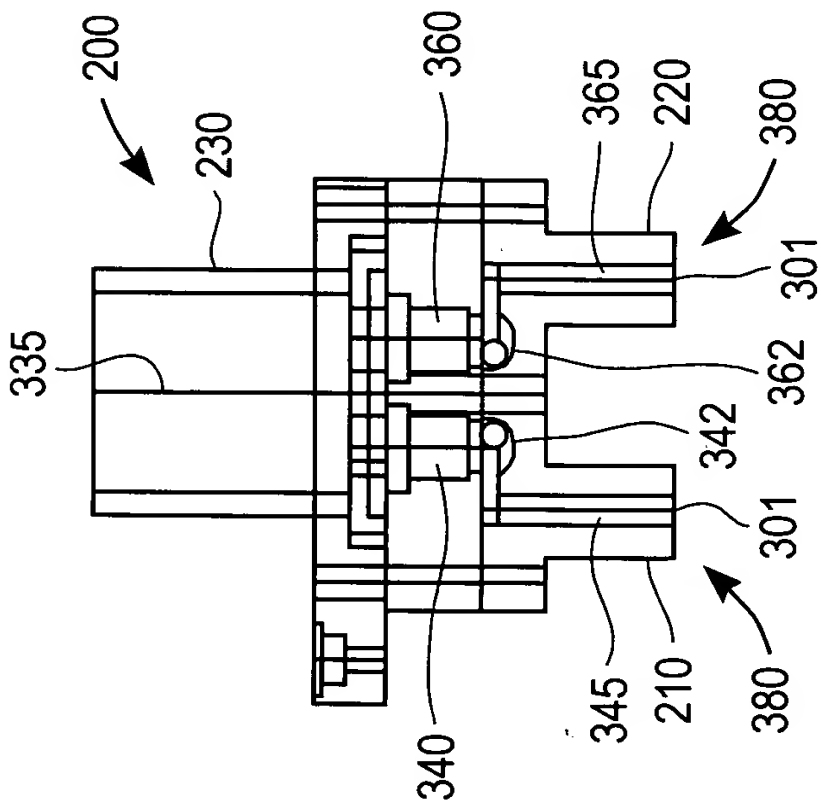
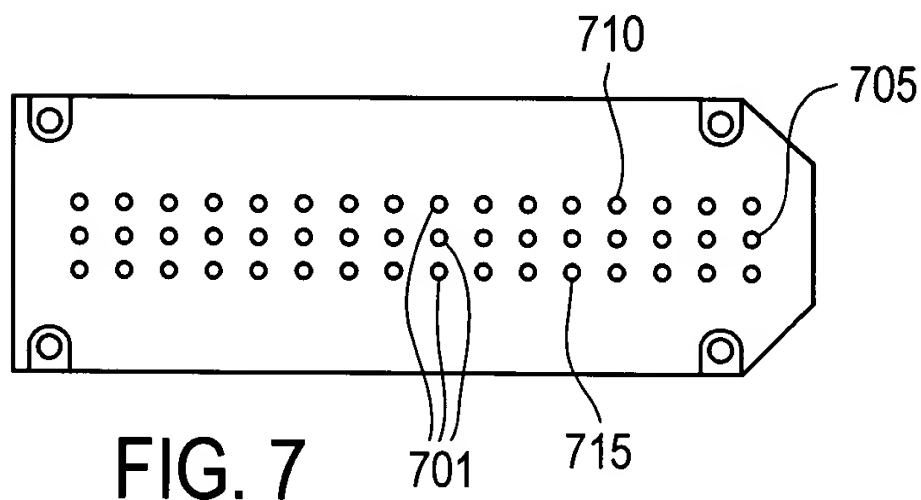
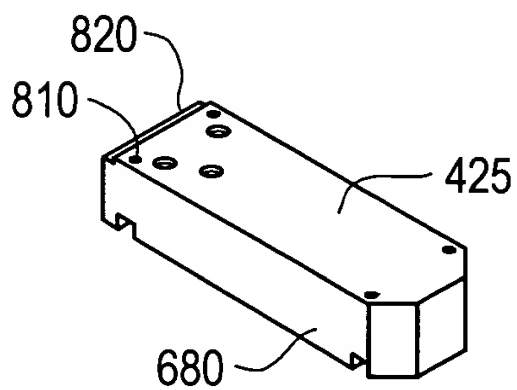
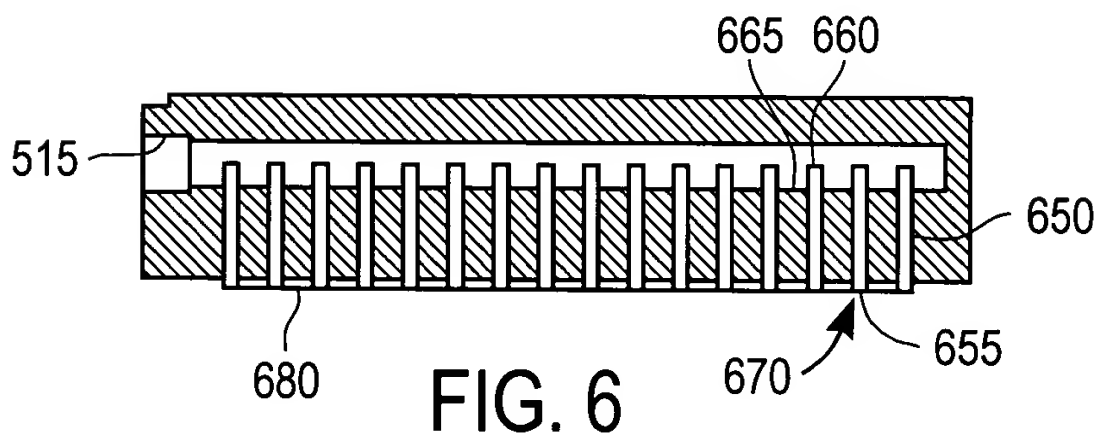
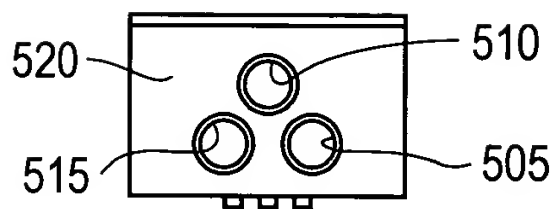
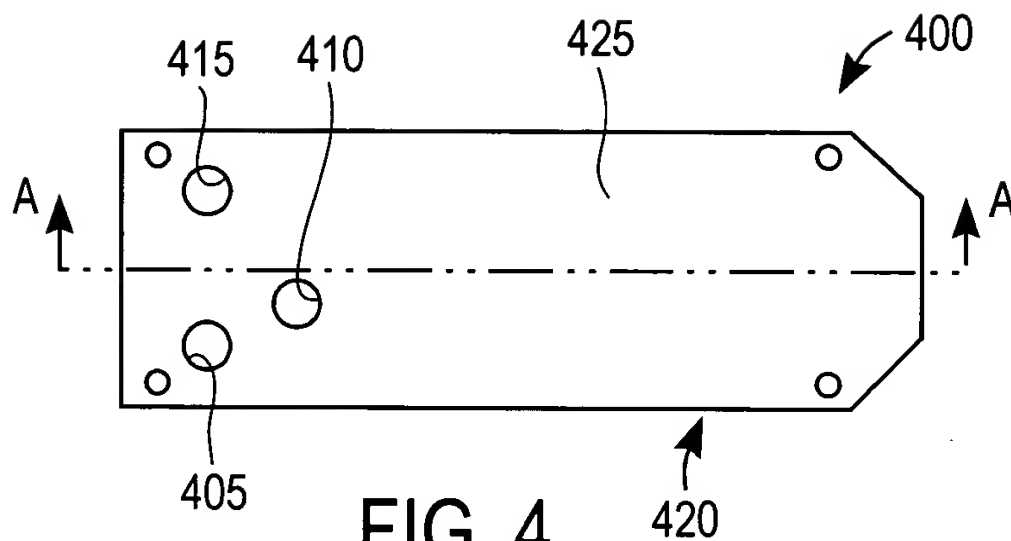


FIG. 3



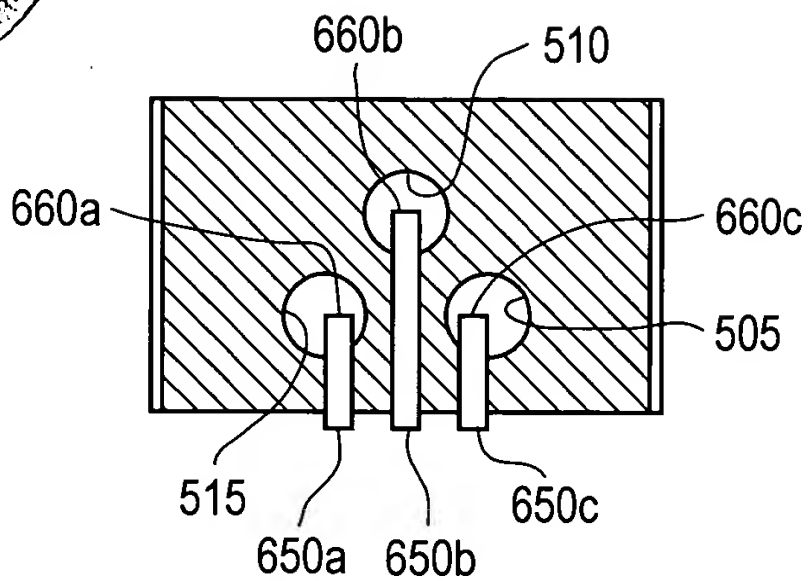
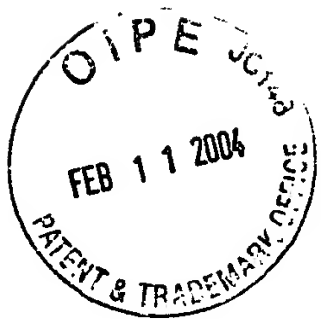


FIG. 9

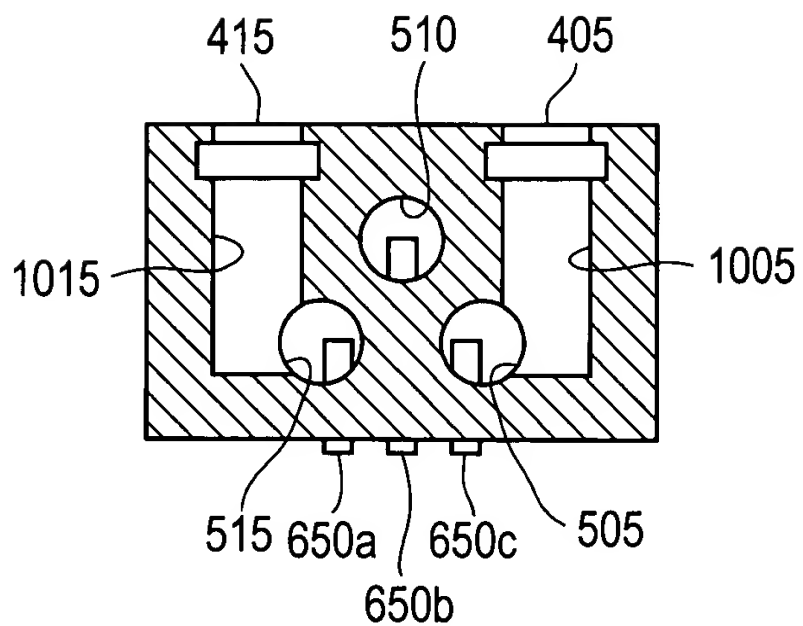


FIG. 10

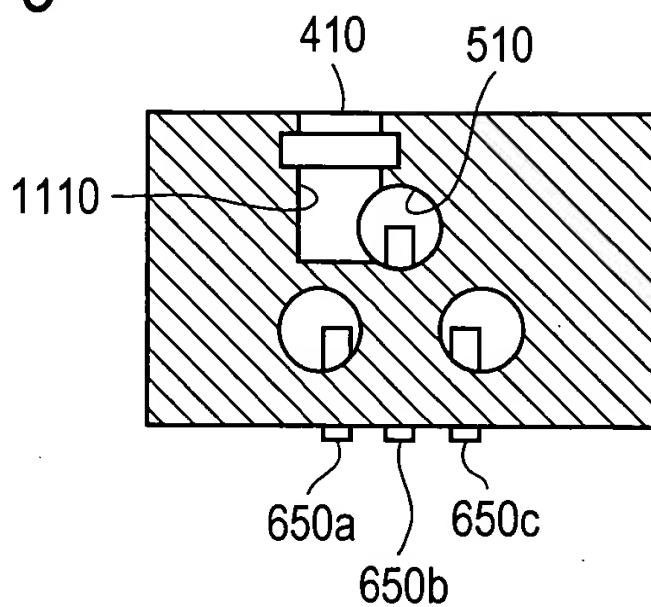


FIG. 11

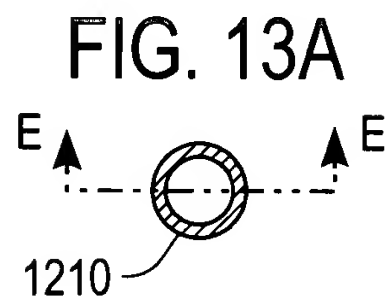


FIG. 12A

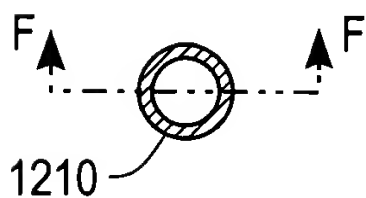


FIG. 12B

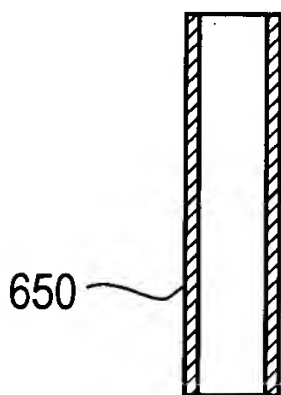
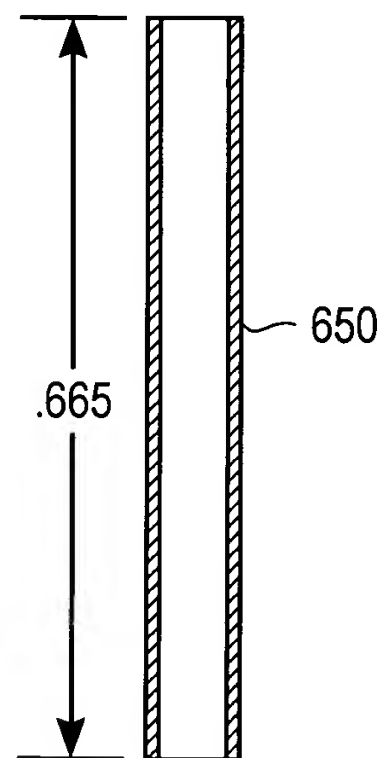


FIG. 13B



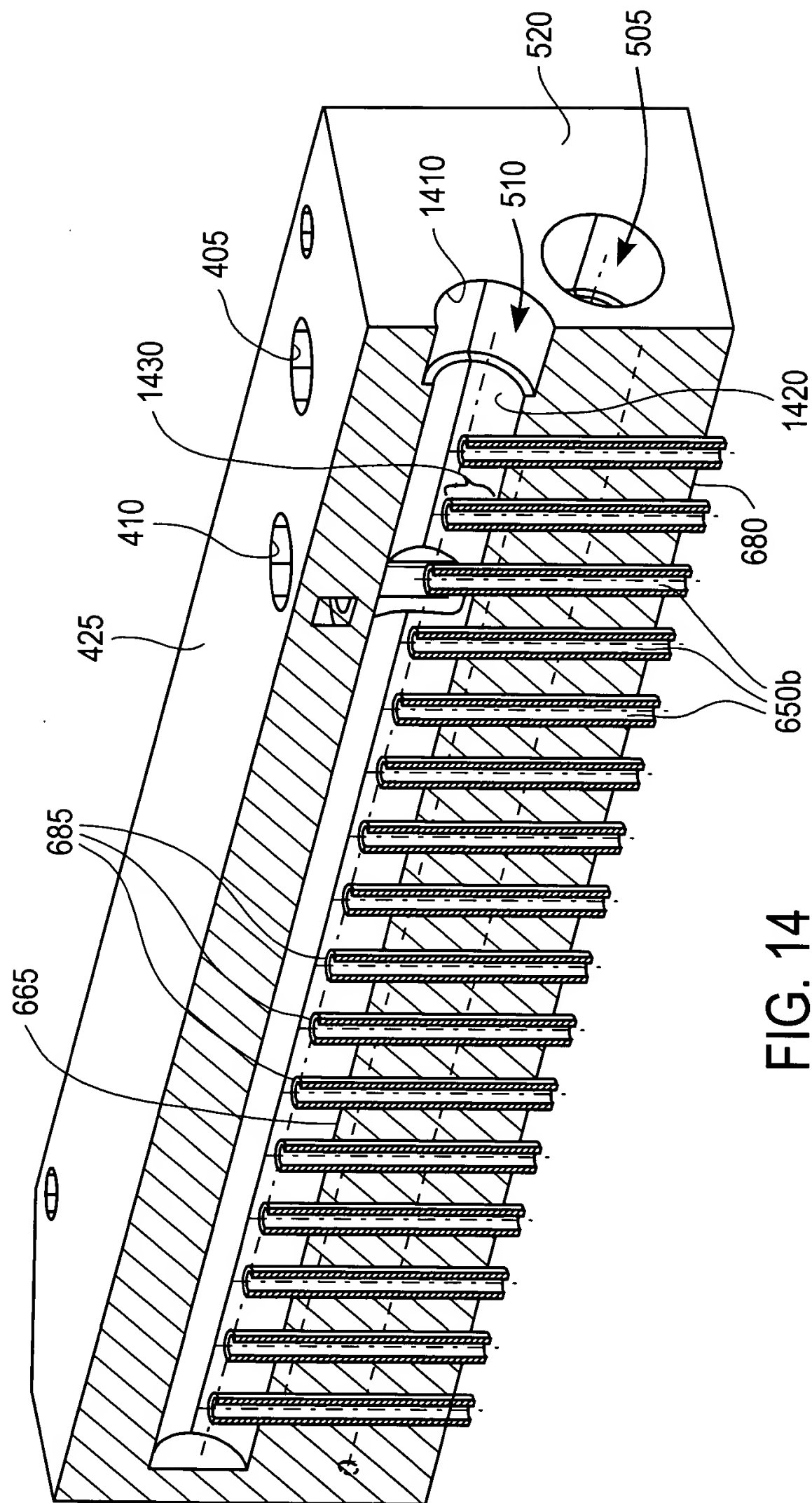
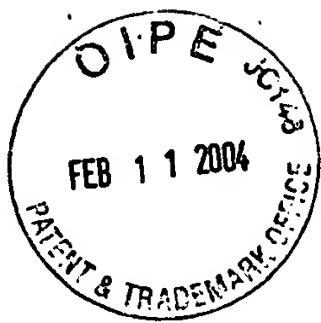


FIG. 14



Develop Rates At 121 Wafer Locations, Develop Arm Offset = 0mm  
TOK 9: Dose = 12: Develop Time = 10sec.

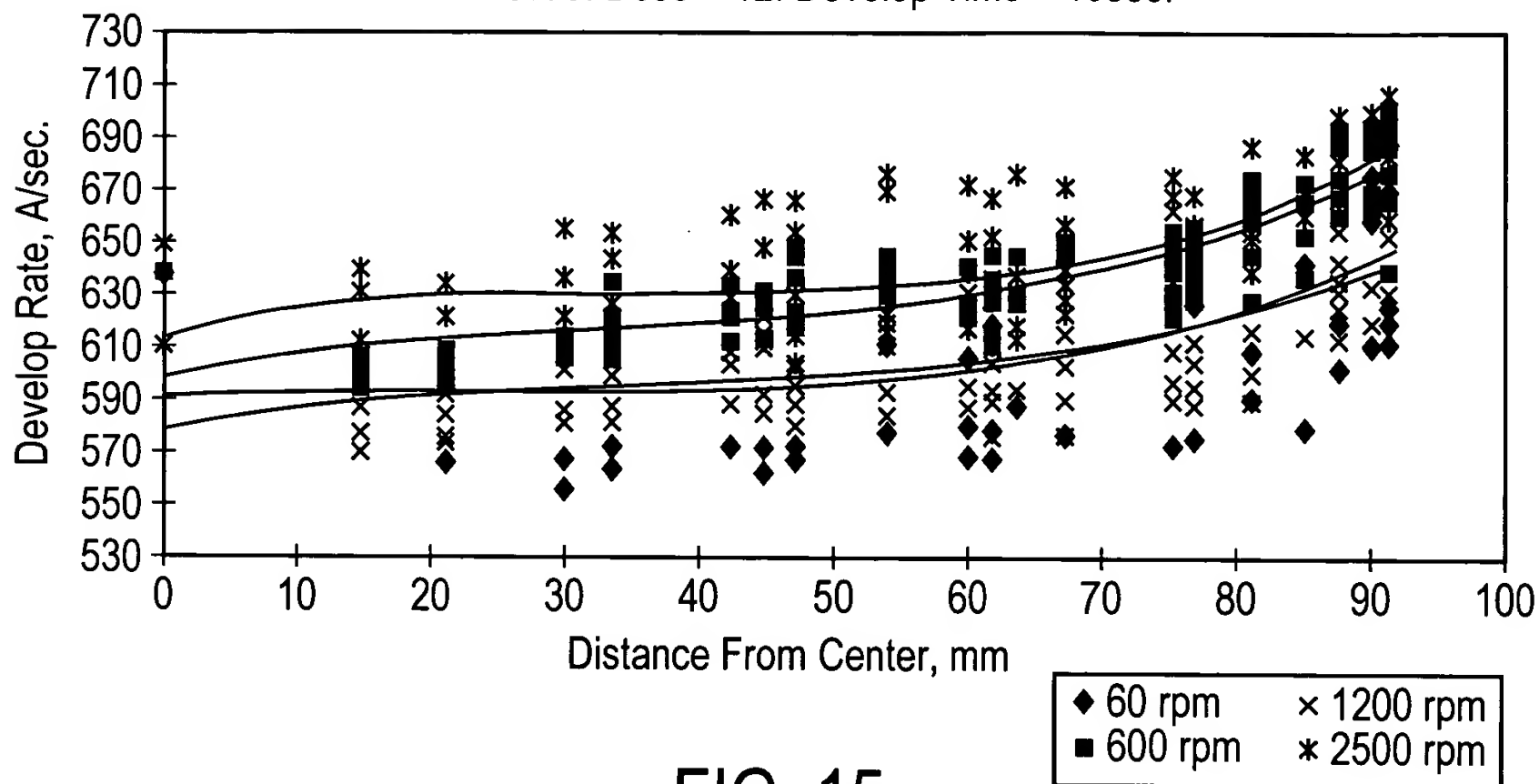


FIG. 15

Develop Rates At 121 Wafer Locations, Develop Arm Offset = 5mm  
TOK 9: Dose = 12: Develop Time = 10sec.

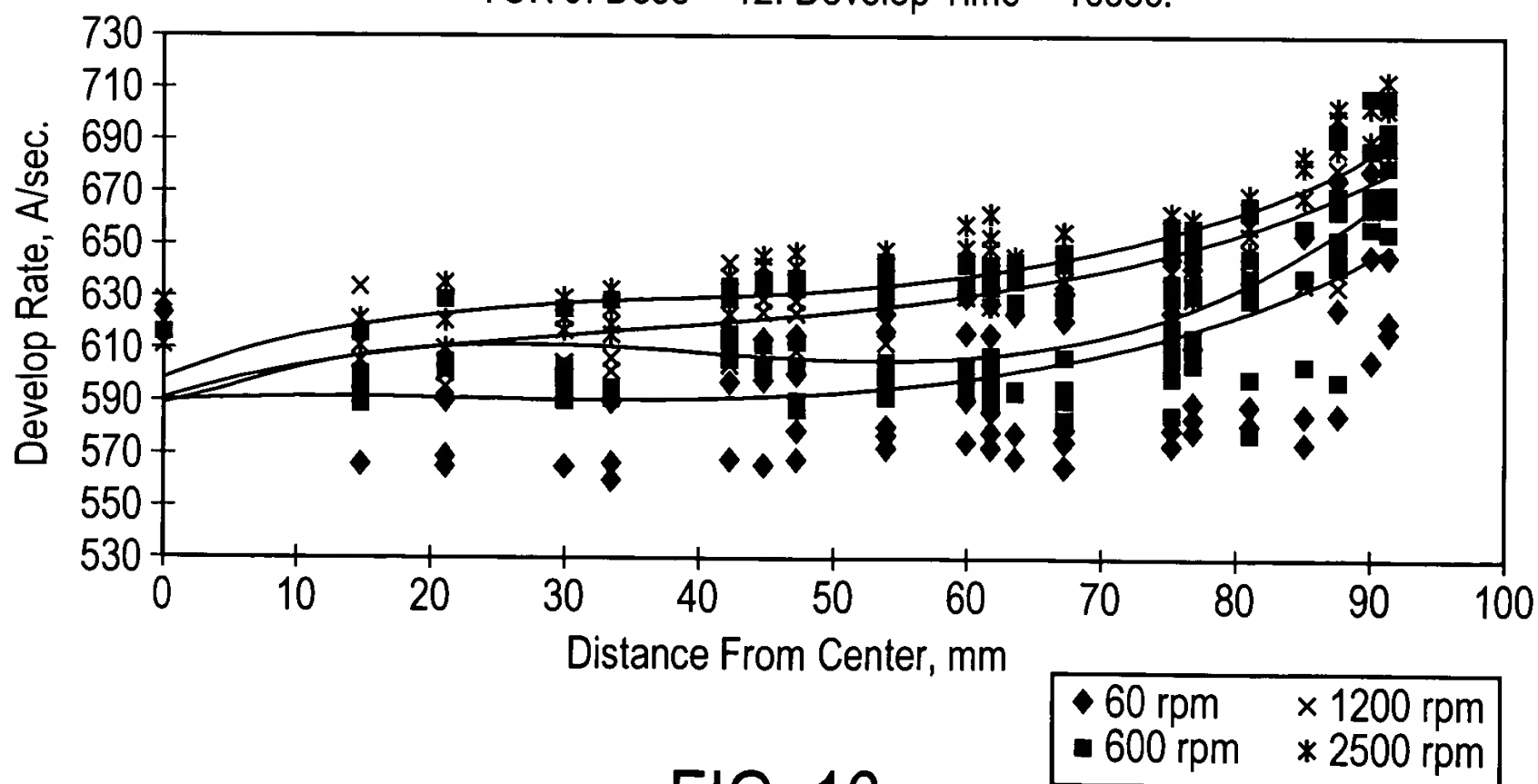


FIG. 16

Develop Rates At 121 Wafer Locations, Develop Arm Offset = 10mm  
TOK 9: Dose = 12: Develop Time = 10sec.

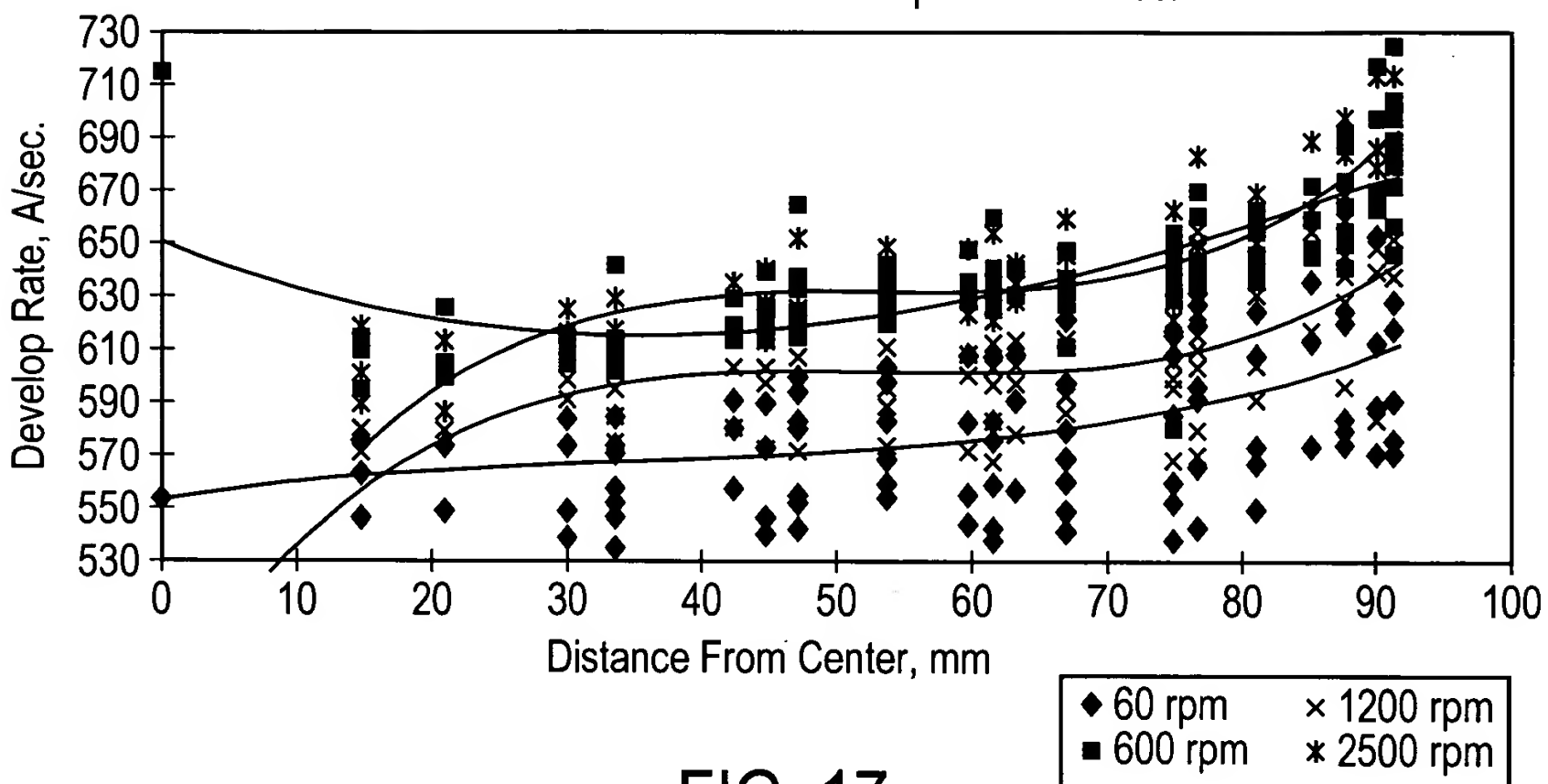


FIG. 17

Develop Rates At 121 Wafer Locations, Develop Arm Offset = 20mm  
TOK 9: Dose = 12: Develop Time = 10sec.

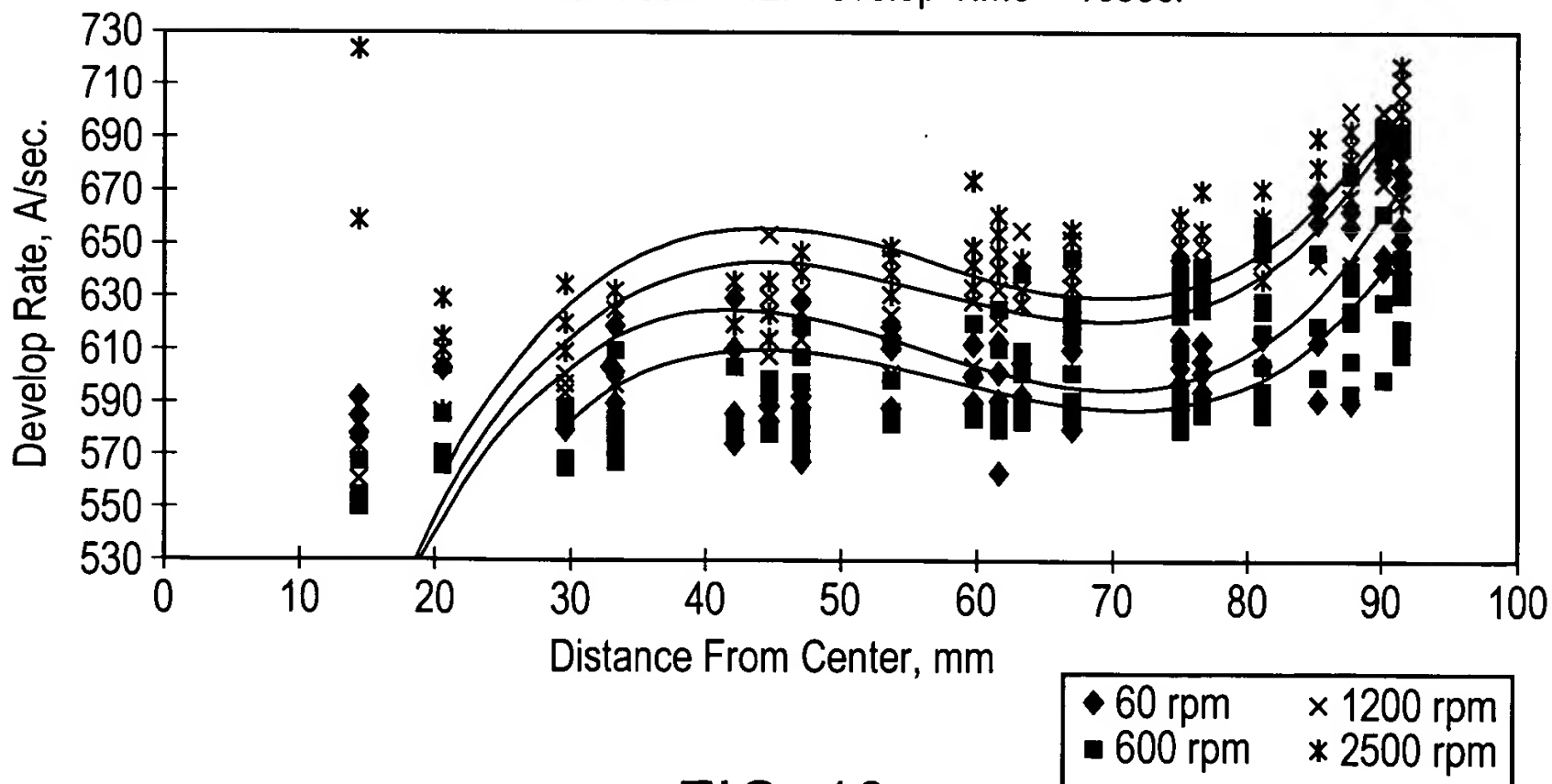
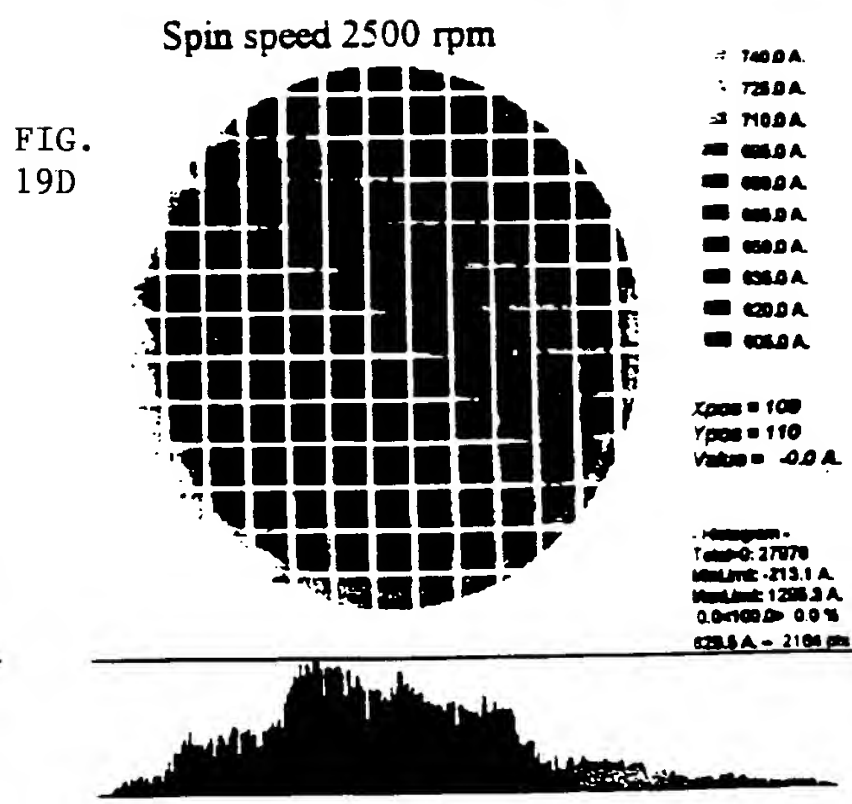
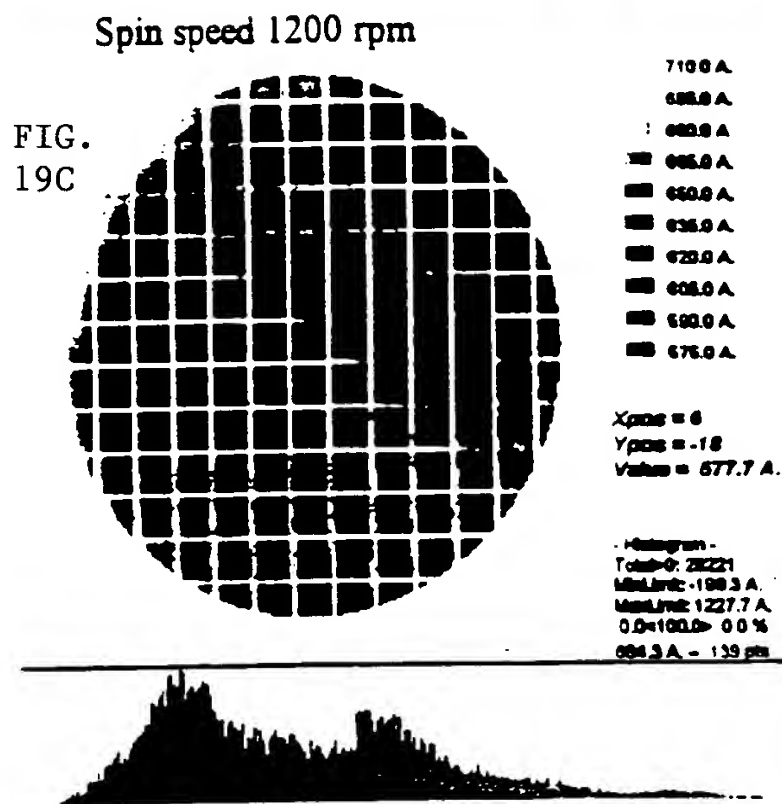
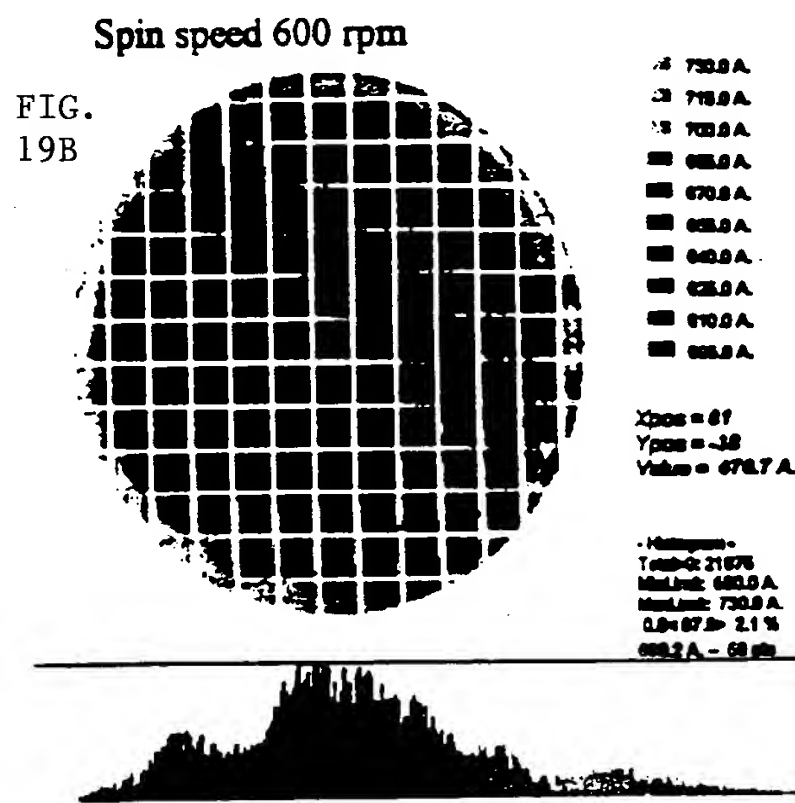
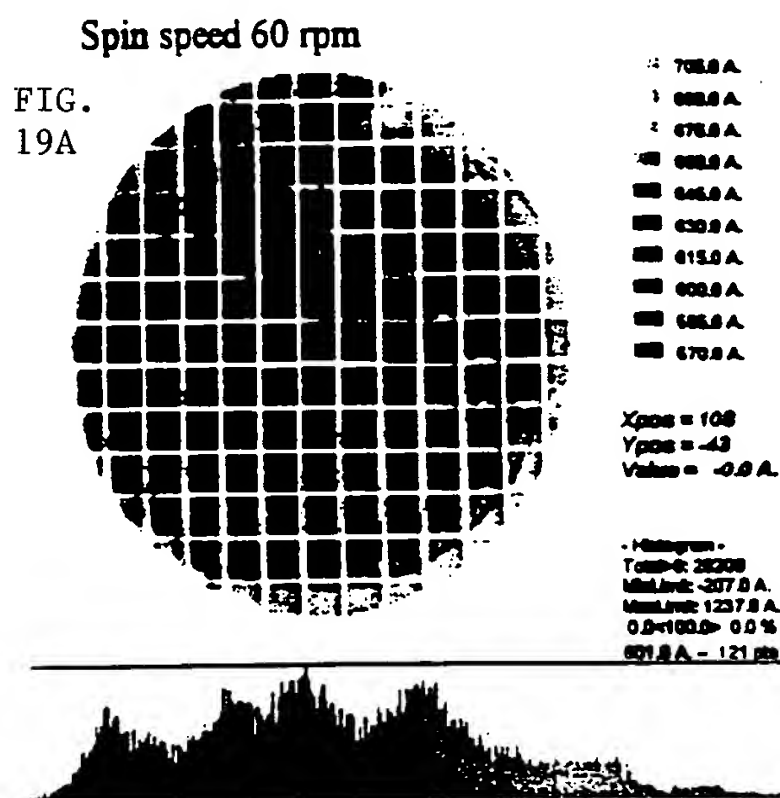


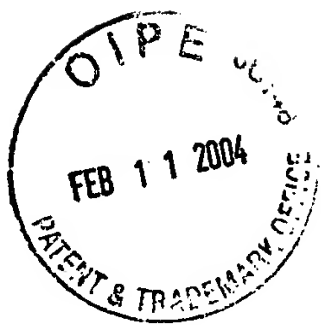
FIG. 18



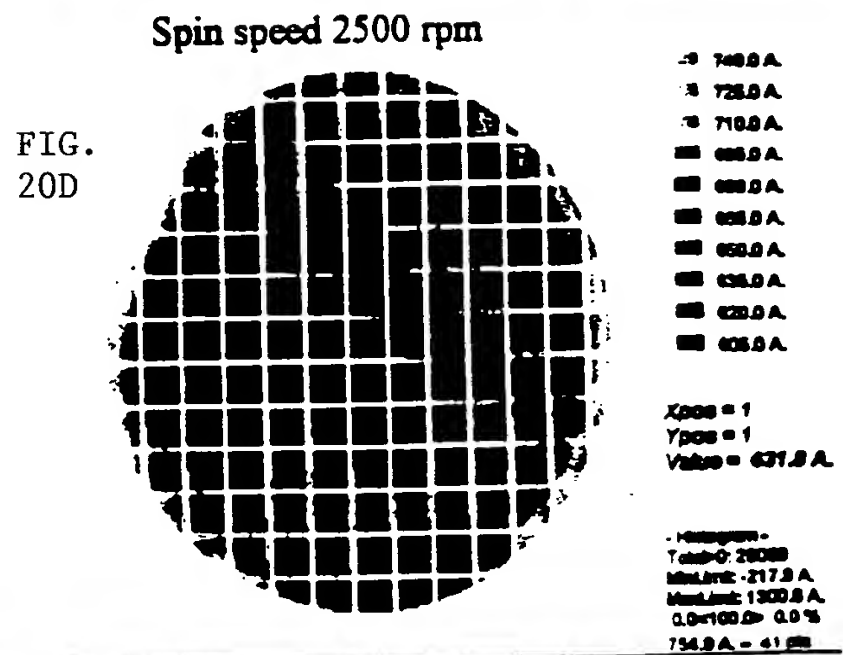
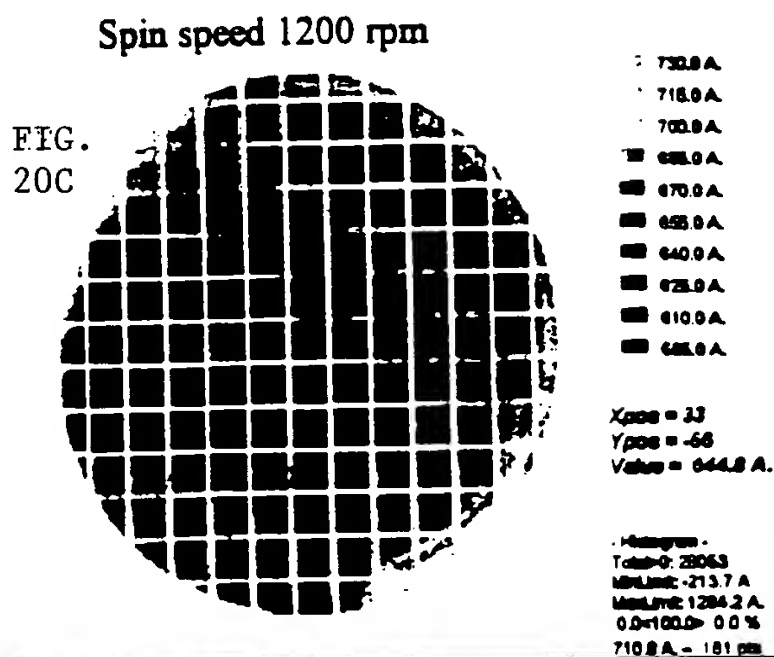
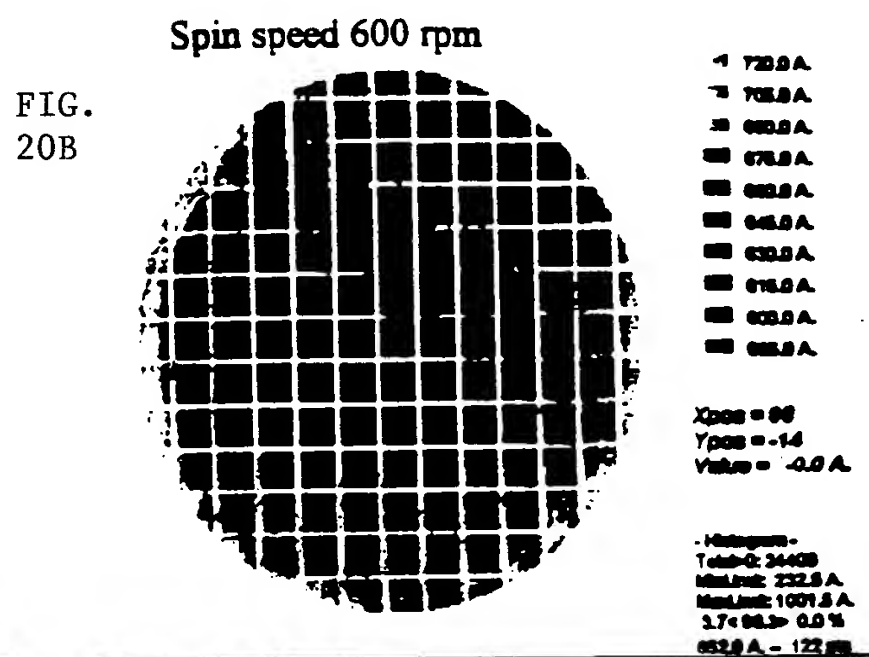
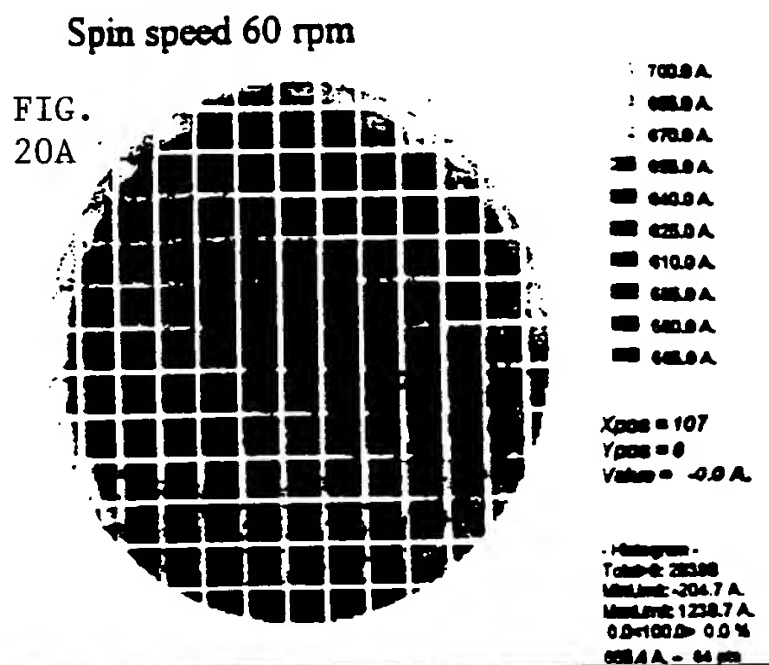
# IPEC Develop Rate Maps for Arm Offset=0mm







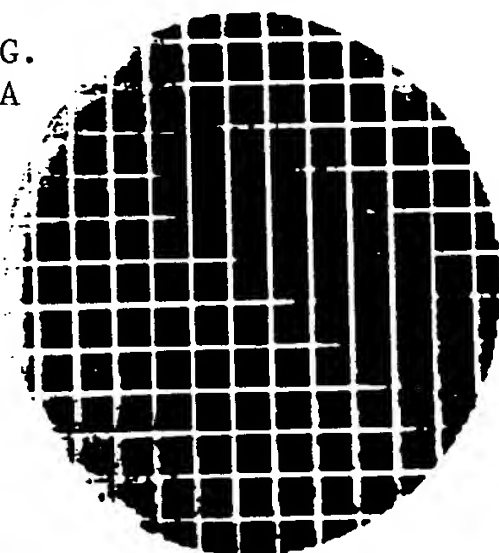
# IPEC Develop Rate Maps for Arm Offset=5mm



# IPEC Develop Rate Maps for Arm Offset=10mm

Spin speed 60 rpm

FIG.  
21A



700.0 A  
680.0 A  
660.0 A  
640.0 A  
620.0 A  
600.0 A  
580.0 A  
560.0 A  
540.0 A  
520.0 A

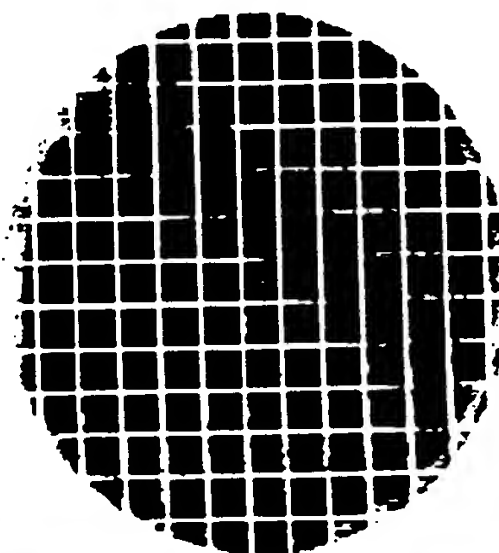
Xpos = 83  
Ypos = 73  
Value = -0.0 A

Histogram -  
Total: 25237  
Min: 198.2 A  
Max: 1191.5 A  
0.0 to 100.0 = 0.0 %  
680.0 A = 0.0 %



Spin speed 600 rpm

FIG.  
21B



740.0 A  
720.0 A  
700.0 A  
680.0 A  
660.0 A  
640.0 A  
620.0 A  
600.0 A  
580.0 A  
560.0 A

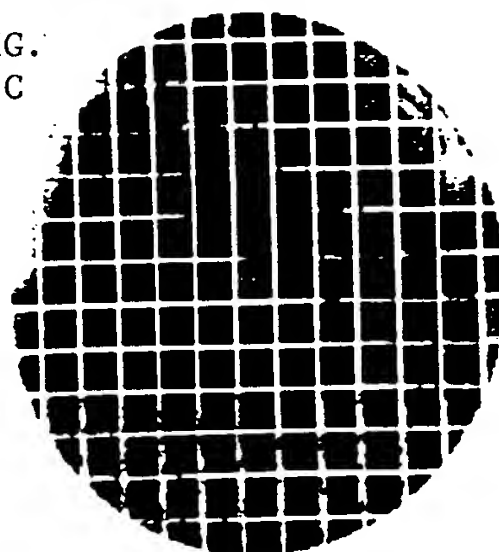
Xpos = 68  
Ypos = 8  
Value = 681.0 A

Histogram -  
Total: 21884  
Min: 680.0 A  
Max: 740.0 A  
0.34 to 0.74 = 2.3 %  
721.3 A = 0.0 %



Spin speed 1200 rpm

FIG.  
21C



710.0 A  
690.0 A  
670.0 A  
650.0 A  
630.0 A  
610.0 A  
590.0 A  
570.0 A  
550.0 A  
530.0 A

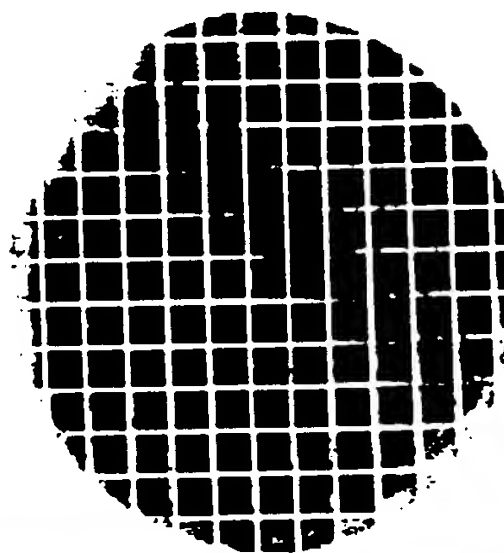
Xpos = 61  
Ypos = -86  
Value = -0.0 A

Histogram -  
Total: 25248  
Min: 198.2 A  
Max: 1223.4 A  
0.0 to 100.0 = 0.0 %  
680.0 A = 10.0 %



Spin speed 2500 rpm

FIG.  
21D

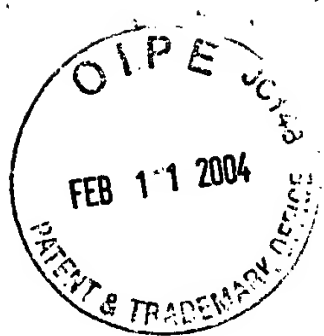


730.0 A  
710.0 A  
690.0 A  
670.0 A  
650.0 A  
630.0 A  
610.0 A  
590.0 A  
570.0 A  
550.0 A

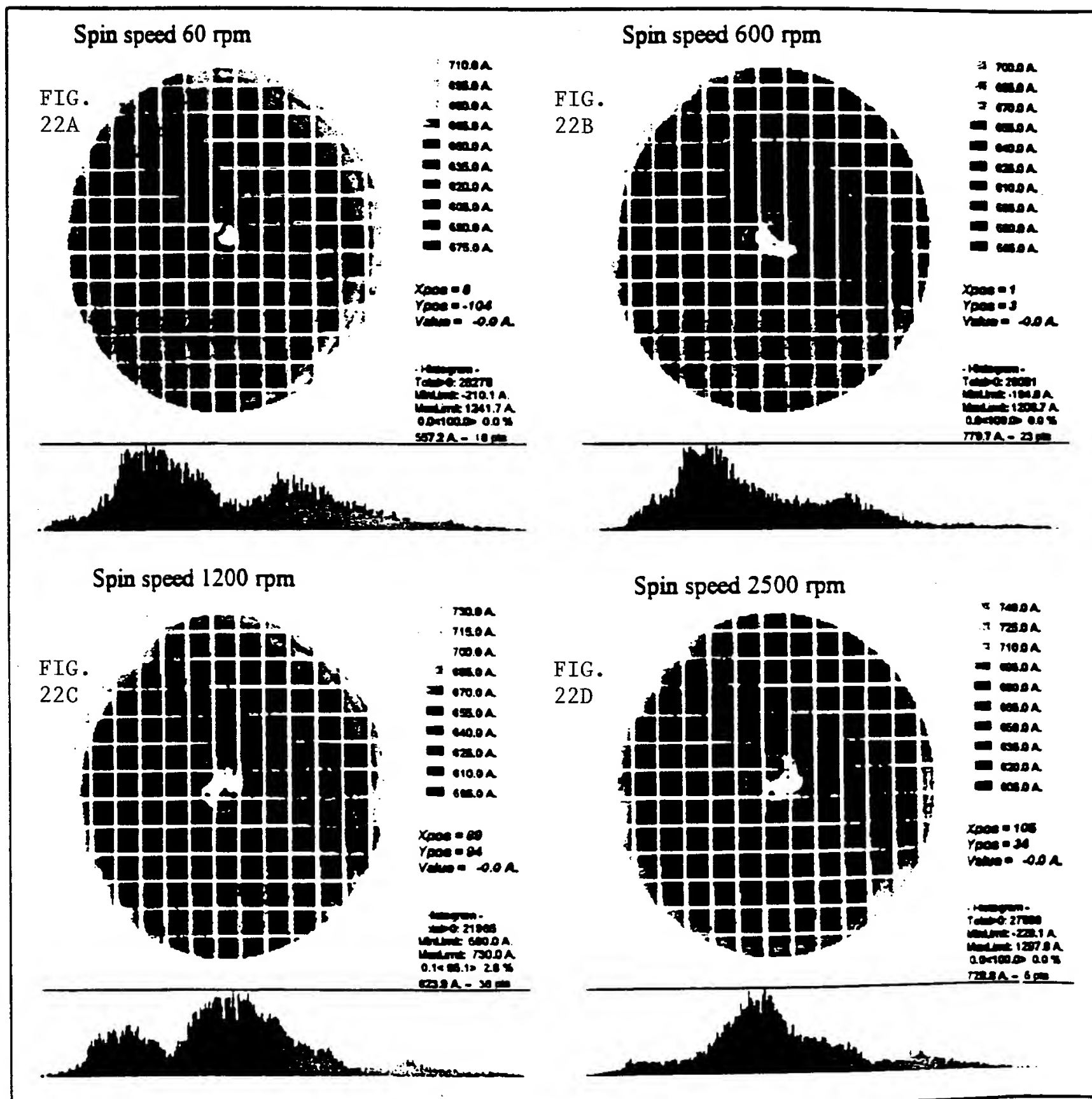
Xpos = 88  
Ypos = 90  
Value = -0.0 A

Histogram -  
Total: 25048  
Min: 214.7 A  
Max: 1287.5 A  
0.0 to 100.0 = 0.0 %  
677.5 A = 20.0 %



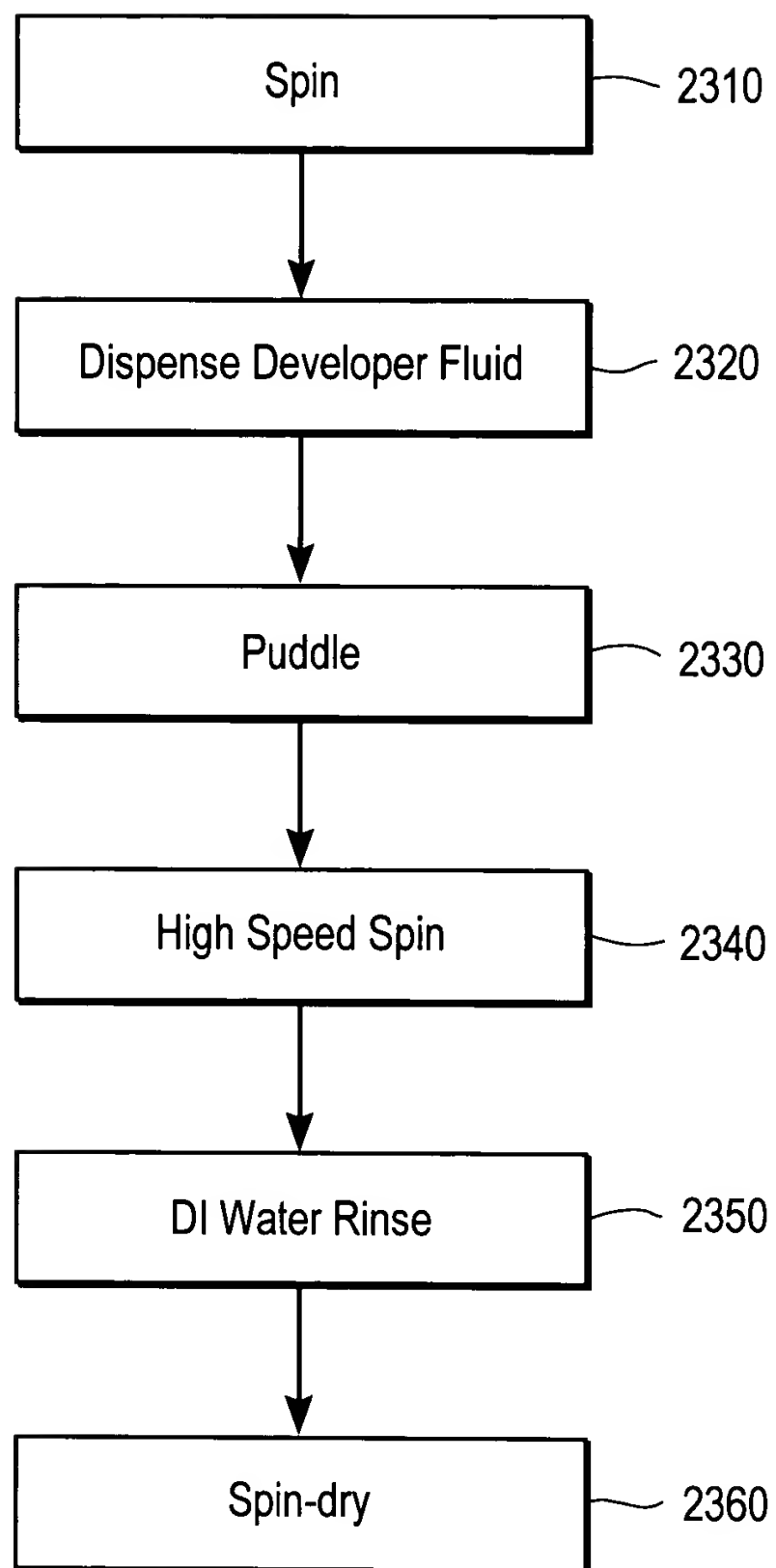


# IPEC Develop Rate Maps for Arm Offset=20mm





2300



Related Art

FIG. 23A



2300

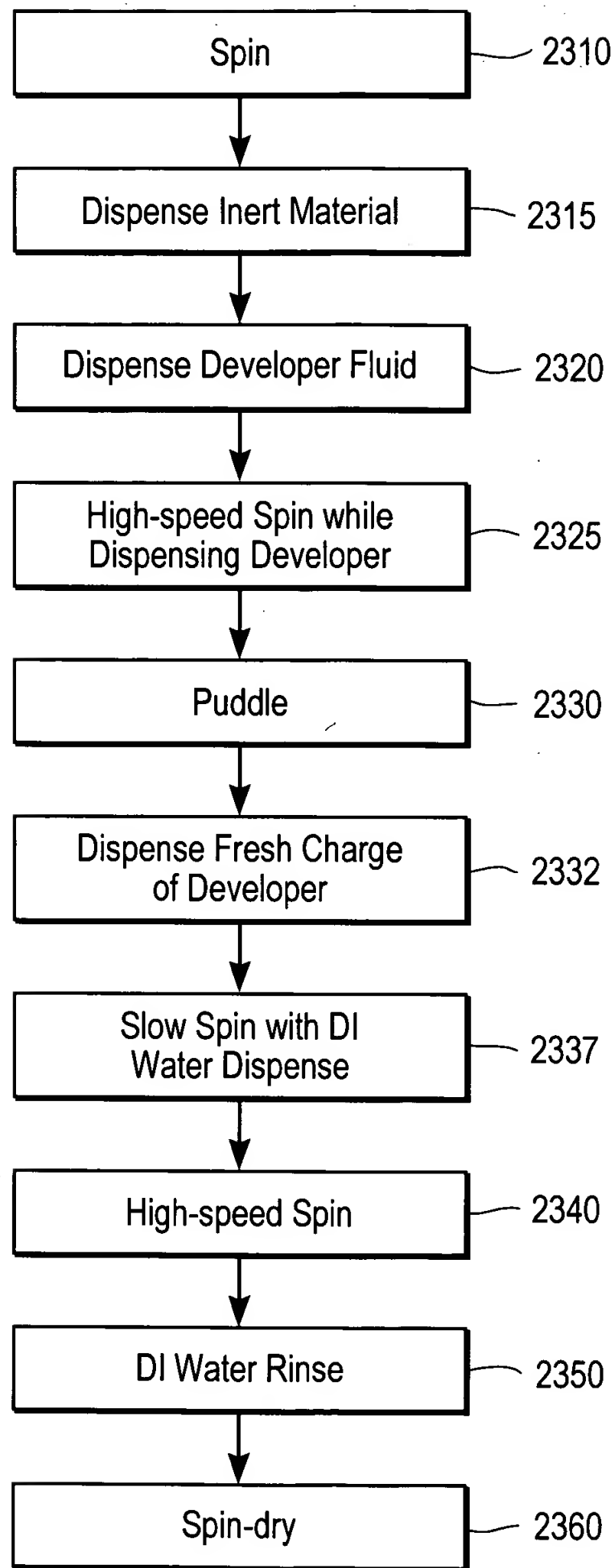


FIG. 23B